

ionSign NEUTRON12-CT

Neutron12-CT enables energy monitoring when the location doesn't allow for external energy meters or they would be costly. It is very easy to install and use.

Neutron12-CT has 12 current transformer inputs for measuring electrical energy without direct electrical coupling. Installation of the opening transformer clamps and changing the measurement target are effortless. Separate energy meters are obsolete.

The 12 inputs may be used for 12 one-phase measurements, 4 three-phase measurements or any combination thereof. Energy is calculated based on current measurements. The device is not MID certified for fiscal metrology.

Neutron12-CT delivers the consumption data to a server over the GSM network. It also has an RS485 interface with Modbus fieldbus protocol for fetching data to external systems, or to ionSign's Modbus master devices.

Neutron12-CT is the most affordable electrical energy monitoring solution. Monitoring also relatively small consumptions makes sense using Neutron12-CT.



Technical specifications

- Integrated 2G/3G GSM module
- 12 current transformer inputs
- CT clamp for 0-63 A current range
- RS485 connection with Modbus slave
- Real-time clock
- 30 days data buffering capacity
- SMA connector for external antenna
- Operating voltage 11...13 VDC
- Current consumption 100mA (peak 200 mA)
- Operating temperature -25°C ... +55°C
- Operating humidity 5%...95%, non-condensing
- 6 module wide DIN rail enclosure
- (WxHxD 105x90x52mm)
- IP20

Typical applications

- Remote monitoring of electrical energy where an electricity meter is not practical or affordable

Mobile user interface

- Easy to control with mobile SMS interface
- Standard HTTP protocol in reporting allows easy server application development
- Easy to install and setup. Only one SMS needed and you are ready to go.

Extra features

- Optional server application which is easy to install and use
- Available with installation enclosure for higher IP class